

IN THE CLAIMS

Please amend claims 1, 4, 7-10, 16-19, 23-25, 28, 33, 36, 39 and 43-47 and add new claims 50-56 as follows, and cancel claims 26, 27, 48 and 49:

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- B3
1. *(currently amended)* A generating device configured to generate signals for a graphical display in which a focus can be navigated between spaced, functional display regions such that they are individually selected when the focus is moved thereto, with a plurality of spaced nodes defined based on the locations of said functional display regions, said nodes configured so that the focus makes a step movement from one node to another node thereof in response to user actuation, the nodes being arranged in a mesh at the intersections of a first set of spaced lines extending in a first predetermined direction and a second set of spaced lines extending in a predetermined second transverse direction, the functional regions being irregularly disposed in the display and at least one of the nodes being disposed at each of the regions respectively.
  2. *(original)* A device according to claim 1 including a user operable navigation control device to provide said user actuation to move the focus from one of said nodes to a next another one thereof in the mesh, the navigation device including a first control to move the focus in said first predetermined direction and second control to move the focus in the second predetermined direction.
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- B4
3. *(previously amended)* A device according to claim 1, wherein at least one of the nodes is disposed outside of the regions.
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- B5
4. *(currently amended)* A ~~display~~ device according to claim 1, wherein the first set of spaced lines are non-equally spaced.
  5. *(original)* A device according to claim 1, wherein the functional display region is associated with a region displayed on the graphical display.

6. (original) A device according to claim 1 having a display device coupled thereto so as to provide the graphical display.

7. (currently amended) ~~A device according to claim 1 included in a~~ multimedia network terminal configured to generate signals for a graphical display in which a focus can be navigated between spaced, functional display regions such that they are individually selected when the focus is moved thereto, with a plurality of spaced nodes defined based on the locations of said functional display regions, said nodes configured so that the focus makes a step movement from one node to another node in response to user actuation, the nodes being arranged in a mesh at the intersections of a first set of spaced lines extending in a first predetermined direction and a second set of spaced lines extending in a predetermined second transverse direction, the functional regions being irregularly disposed in the display and at least one of the nodes being disposed at each of the regions respectively.

8. (currently amended) ~~A device according to claim 1 included in a~~ set top box for a television configured to generate signals for said television in which a focus can be navigated between spaced, functional display regions such that they are individually selected when the focus is moved thereto, with a plurality of spaced nodes defined based on the locations of said functional display regions, said nodes configured so that the focus makes a step movement from one node to another node in response to user actuation, the nodes being arranged in a mesh at the intersections of a first set of spaced lines extending in a first predetermined direction and a second set of spaced lines extending in a predetermined second transverse direction, the functional regions being irregularly disposed in the display and at least one of the nodes being disposed at each of the regions respectively.

9. *(currently amended)* ~~A device according to claim 1 comprising a mobile station~~ telephone configured to generate signals for a graphical display in which a focus can be navigated between spaced, functional display regions such that they are individually selected when the focus is moved thereto, with a plurality of spaced nodes defined based on the locations of said functional display regions, said nodes configured so that the focus makes a step movement from one node to another node in response to user actuation, the nodes being arranged in a mesh at the intersections of a first set of spaced lines extending in a first predetermined direction and a second set of spaced lines extending in a predetermined second transverse direction, the functional regions being irregularly disposed in the display and at least one of the nodes being disposed at each of the regions respectively.

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10. *(currently amended)* ~~A device according to claim 1 comprising a personal~~ computer configured to generate signals for a graphical display in which a focus can be navigated between spaced, functional display regions such that they are individually selected when the focus is moved thereto, with a plurality of spaced nodes defined based on the locations of said functional display regions, said nodes configured so that the focus makes a step movement from one node to another node in response to user actuation, the nodes being arranged in a mesh at the intersections of a first set of spaced lines extending in a first predetermined direction and a second set of spaced lines extending in a predetermined second transverse direction, the functional regions being irregularly disposed in the display and at least one of the nodes being disposed at each of the regions respectively.

11. *(original)* A device according to claim 1 further comprising additional nodes arranged on another mesh at the intersections of a third set of spaced lines extending a third predetermined direction and a fourth set of spaced lines extending in a predetermined fourth transverse direction, the focus being navigable between said meshes.

12. *(original)* A device according to claim 11, wherein said other mesh overlies or underlies said mesh.

13. *(original)* A device according to claim 11, wherein the third predetermined direction is the same as the first predetermined direction.

14. *(original)* A device according to claim 11, wherein the fourth predetermined direction is the same as the second predetermined direction.

15. *(original)* A device according to claim 1 further comprising a node disposed on a handle of a scroll bar so as to allow scrolling of a page and permit selection of functional display regions not presently displayed.

16. *(currently amended)* A method of navigating a focus between spaced functional display regions in a device of the type configured to generate signals for a graphical display in which a focus can be navigated between spaced, functional display regions such that they are individually selected when the focus is moved thereto, with a plurality of spaced nodes defined based on the locations of said functional display regions, said nodes configured so that the focus makes a step movement from one node to another ~~thereof~~ node in response to user actuation, the nodes being arranged in a mesh at the intersections of a first set of spaced lines extending a first predetermined direction and a second set of spaced lines extending in a predetermined second transverse direction, the functional regions being irregularly disposed in the display and at least one of the nodes being disposed at each of the regions respectively, the device including a user operable navigation control device to provide said user actuation to move the focus from one of said nodes to a next another one thereof in the mesh, the navigation device including a first control to move the focus in said first predetermined direction and second control to move the focus in the second predetermined direction; the method comprising inputting into the user operable navigation device a movement command corresponding to movement along the first

predetermined direction and stepping the focus from a first spaced node to a second spaced node displaced from the first node along the first predetermined direction.

17. *(currently amended)* A method of navigating a focus from ~~said a~~ mesh to ~~said other~~ another mesh in a device of the type configured to generate signals for a graphical display in which a focus can be navigated between spaced, functional display regions such that they are individually selected when the focus is moved thereto, with a plurality of spaced nodes defined based on the locations of said functional display regions, said nodes configured so that the focus makes a step movement from one node to another ~~thereof~~ node in response to user actuation, the nodes being arranged in ~~[[a]]~~ the mesh at the intersections of a first set of spaced lines extending a first predetermined direction and a second set of spaced lines extending in a predetermined second transverse direction, the functional regions being irregularly disposed in the display and at least one of the nodes being disposed at each of the regions respectively, the device having additional nodes arranged on ~~another~~ said other mesh at the intersections of a third set of spaced lines extending a third predetermined direction and a fourth set of spaced lines extending in a predetermined fourth transverse direction, the focus being navigable between said meshes; the method comprising navigating the focus to a node on said mesh adjacent to said other mesh and inputting into the user operable navigation device a movement command corresponding to movement off said mesh in the direction of said other mesh.

18. *(currently amended)* A method of navigating a focus from ~~[[said]]~~ a mesh and onto ~~[[said]]~~ a node in a device configured to generate signals for a graphical display in which a focus can be navigated between spaced, functional display regions such that they are individually selected when the focus is moved thereto, with a plurality of the spaced nodes defined based on the locations of said functional display regions, said nodes configured so that the focus makes a step movement from one node to another ~~thereof~~ node in response to user actuation, the nodes being arranged in a mesh at the intersections of a first set of spaced lines extending a first predetermined direction and a second set of spaced lines extending in a predetermined second transverse direction, the functional regions being irregularly disposed in the display and at least

one of the nodes being disposed at each of the regions respectively, the device further having a node disposed on a handle of a scroll bar so as to allow scrolling of a page and permit selection of functional display regions not presently displayed; the method comprising navigating the focus to a node on said mesh adjacent to the node disposed on the handle of a scroll bar and inputting into the user operable navigation device a movement command corresponding to movement off said mesh and onto said node disposed on the handle of the scroll bar.

19. *(currently amended)* A method of configuring a mesh, the method comprising determining minimum and maximum co-ordinate values along a predetermined direction for a first functional display region, determining minimum and maximum co-ordinate values along a predetermined direction for a second functional display region, obtaining an intermediate co-ordinate value in dependence on said values and providing a mesh line defined by said ~~median~~ intermediate co-ordinate value.

20. *(original)* A method according to claim 19 wherein obtaining said intermediate value comprises determining a mean value of the maximum and minimum co-ordinate values for the first region.

21. *(original)* A method according to claim 19 wherein obtaining said intermediate value comprises testing whether the maximum co-ordinate value of the first region is greater than the minimum co-ordinate value of the second region and determining a mean value of the maximum co-ordinate value for the first region and the minimum co-ordinate value of the second region.

22. *(original)* A method according to claim 19 wherein obtaining said intermediate value comprises testing whether the maximum co-ordinate value of the first region is greater than the minimum co-ordinate value of the second region, testing whether the maximum co-ordinate value for the first region is greater than the maximum co-ordinate

value for the second region and determining a mean value of the maximum and minimum co-ordinate values for the second region.

23. *(currently amended)* A method, in a display generating device configured to provide a graphical display in which a focus can be navigated between spaced, functional display regions such that they are individually selected when the focus is moved thereto, for operating said device, the method comprising configuring a plurality of spaced nodes, the spaced nodes defined based on the locations of said functional display regions, so that the focus makes a step movement from one node to another ~~thereof~~ node in response to user actuation, said configuring comprising arranging the nodes in a mesh at the intersections of a first set of spaced lines extending a first predetermined direction and a second set of spaced lines extending in a predetermined second transverse direction, the functional regions being irregularly disposed in the display and at least one of the nodes being disposed at each of the regions respectively.

24. *(currently amended)* A computer program product comprising a computer readable medium having thereon: a computer program configured, ~~to provide~~ when loaded on a computer, to provide signals to generate a graphical display in which a focus can be navigated between spaced, functional display regions such that they are individually selected when the focus is moved thereto, and to make said computer execute a procedure to configure a plurality of spaced nodes, the spaced nodes defined based on the locations of said functional display regions, so that the focus makes a step movement from one node to another ~~thereof~~ node in response to user actuation, the nodes being arranged in a mesh at the intersections of a first set of spaced lines extending a first predetermined direction and a second set of spaced lines extending in a predetermined second transverse direction, the functional regions being irregularly disposed in the display and at least one of the nodes being disposed at each of the regions respectively.

25. *(currently amended)* A computer program comprising: computer code stored in a computer readable medium to make a computer generate signals for a graphical display in which a focus can be navigated between spaced, functional display regions such that they are individually selected when the focus is moved thereto, and to make a computer execute a procedure to configure a plurality of spaced nodes, the spaced nodes defined based on the locations of said functional display regions, so that the focus makes a step movement from one node to another ~~thereof~~ node in response to user actuation, the nodes being arranged in a mesh at the intersections of a first set of spaced lines extending a first predetermined direction and a second set of spaced lines extending in a predetermined second transverse direction, the functional regions being irregularly disposed in the display and at least one of the nodes being disposed at each of the regions respectively.

26. *(cancelled)*

27. *(cancelled)*

28. *(currently amended)* A method of navigating a focus between irregularly spaced, functional display regions on a display device, the method comprising:

supplying an individual directional input;

configuring a plurality of spaced nodes, the spaced nodes defined based on the locations of said functional display regions;

moving the focus from a first node to a second node in a predefined discrete step along a direction corresponding to said directional input, the second node being disposed between the irregularly spaced, functional display regions;

supplying another individual directional input; and

moving the focus to a third node in another predefined discrete step along a direction corresponding to said other directional input, said third node being disposed within one of said irregularly spaced, functional display regions so as to enable selection of said region.



29. *(original)* A method according to claim 28 further comprising arranging the nodes at the intersections of a first set of spaced lines extending a first predetermined direction and a second set of spaced lines extending in a predetermined second transverse direction.

30. *(original)* A method according to claim 28 comprising determining whether a node is disposed within one of said irregularly spaced, functional display regions and is also located within a predefined segment and in the absence of such a node, providing the second node at the predefined discrete step along a direction corresponding to said directional input and moving the focus to said second node.

31. *(original)* A method according to claim 28 wherein the first node is within one of said irregularly spaced functional display regions.

32. *(original)* A method according to claim 28, wherein the first node is not within one of said irregularly spaced regions and including previously causing the focus to make a step movement from another node in another of said irregularly spaced functional display regions, to said first node in response to an individual directional input.

33. *(currently amended)* A method of operating a display generating device configured to provide a graphical display in which a focus can be navigated between spaced, functional display regions, said method comprising:

receiving an individual directional input;

configuring a plurality of spaced nodes, the spaced nodes defined based on the locations of said functional display regions;

moving the focus from a first node to a second node in a predefined discrete step along a direction corresponding to said directional input, the second node being disposed between the irregularly spaced, functional display regions;

receiving another individual directional input; and

moving the focus to a third node in another predefined discrete step along a direction corresponding to said other directional input, said third node being disposed within one of said irregularly spaced, functional display regions so as to enable selection of said region.

34. *(original)* A method according to claim 33 further comprising arranging the nodes at the intersections of a first set of spaced lines extending a first predetermined direction and a second set of spaced lines extending in a predetermined second transverse direction.

35. *(original)* A method according to claim 33 comprising determining whether a node is disposed within one of said irregularly spaced, functional display regions and is also located within a predefined segment and in the absence of such a node, providing the second node at the predefined discrete step along a direction corresponding to said directional input and moving the focus to said second node.

36. *(currently amended)* A display generating device configured to generate signals for a graphical display in which a focus can be navigated between irregularly spaced, functional display regions on a display device, comprising a plurality of spaced nodes defined based on the locations of said functional display regions, and further comprising a first input for supplying an individual directional input, a first controller for moving the focus from a first node of said plurality of nodes to a second node of said plurality of nodes in a predefined discrete step along a direction corresponding to said directional input, the second node being disposed between the irregularly spaced, functional display regions, a second input for supplying another individual directional input and a second controller for moving the focus to a third node of said plurality of nodes in another predefined discrete step along a direction corresponding to said other directional input, said third node being disposed within one of said irregularly spaced, functional display regions so as to enable selection of said region.

37. (original) A device according to claim 36, wherein the first and second controllers are unitary.

38. (original) A device according to claim 36, wherein the first input for supplying the individual directional input comprises a user operable navigation control.

39. (currently amended) A device according to claim [[36]] 38, wherein the first input for supplying the individual directional input and the second means input for supplying another directional input and the user operable navigation control is are unitary.

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40. (previously amended) A device according to claim 36, wherein the functional display region is associated with a region displayed in the graphical display.

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41. (original) A device according to claim 36, wherein said first node is within one of said irregularly spaced functional regions.

42. (original) A device according to claim 36 coupled to a display device configured to provide said graphical display.

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43. (currently amended) A multimedia network terminal ~~including a device according to claim 36~~ configured to generate signals for a graphical display in which a focus can be navigated between irregularly spaced, functional display regions on a display device, comprising a plurality of spaced nodes defined based on the locations of said functional display regions, and further comprising a first input for supplying an individual directional input, a first controller for moving the focus from a first node of said plurality of nodes to a second node of said plurality of nodes in a predefined discrete step along a direction corresponding to said directional input, the second node being disposed between the irregularly spaced, functional display regions, a second input for supplying another directional input and a second controller for moving the focus to a third node of said

plurality of nodes disposed within one of said irregularly spaced, functional display regions so as to enable selection of said region.

44. *(currently amended)* A mobile ~~station including a device according to claim 36~~ telephone configured to generate signals for a graphical display in which a focus can be navigated between irregularly spaced, functional display regions on a display device, comprising a plurality of spaced nodes defined based on the locations of said functional display regions, and further comprising a first input for supplying an individual directional input, a first controller for moving the focus from a first node of said plurality of nodes to a second node of said plurality of nodes in a predefined discrete step along a direction corresponding to said directional input, the second node being disposed between the irregularly spaced, functional display regions, a second input for supplying another directional input and a second controller for moving the focus to a third node of said plurality of nodes disposed within one of said irregularly spaced, functional display regions so as to enable selection of said region.

45. *(currently amended)* A personal computer ~~including a device according to claim 36~~ configured to generate signals for a graphical display in which a focus can be navigated between irregularly spaced, functional display regions on a display device, comprising a plurality of spaced nodes defined based on the locations of said functional display regions, and further comprising a first input for supplying an individual directional input, a first controller for moving the focus from a first node of said plurality of nodes to a second node of said plurality of nodes in a predefined discrete step along a direction corresponding to said directional input, the second node being disposed between the irregularly spaced, functional display regions, a second input for supplying another directional input and a second controller for moving the focus to a third node of said plurality of nodes disposed within one of said irregularly spaced, functional display regions so as to enable selection of said region.

18/2  
46. *(currently amended)* A computer program product comprising a computer readable medium having thereon: a computer program[[,]] configured, when loaded on a computer, to provide signals for a graphical display in which a focus can be navigated between spaced, functional display regions such that they are individually selected when the focus is moved thereto, wherein a plurality of spaced nodes are defined based on the locations of said functional display regions and to make said computer execute a procedure to receive an individual directional input, to move the focus from a first node of said plurality of nodes to a second node of said plurality of nodes in a predefined discrete step along a direction corresponding to said directional input, the second node being disposed between the ~~irregularly~~ spaced, functional display regions, to receive another directional input and to move the focus to a third node of said plurality of nodes disposed within one of said ~~irregularly~~ spaced, functional display regions so as to enable selection of said region.

47. *(currently amended)* A computer program comprising: computer code stored in a data processing readable medium so as to make a data processing apparatus ~~provide~~ generate signals for a graphical display in which a focus can be navigated between spaced, functional display regions such that they are individually selected when the focus is moved thereto wherein a plurality of spaced nodes are defined based on the locations of said functional display regions, and to make the data processing apparatus execute a procedure to receive an individual directional input, to move the focus from a first node of said plurality of nodes to a second node of said plurality of nodes in a predefined discrete step along a direction corresponding to said directional input, the second node being disposed between the ~~irregularly~~ spaced, functional display regions, to receive another directional input and to move the focus to a third node of said plurality of nodes disposed within one of said ~~irregularly~~ spaced, functional display regions so as to enable selection of said region.

48. *(cancelled)*

49. *(cancelled)*

50. (new) A device according to claim 1, wherein nodes of said mesh are irregularly spaced.

51. (new) A device according to claim 1, wherein members of said first set of lines extend along said first direction and are spaced from one another along said second predetermined direction with differing degrees of separation.

52. (new) A device according to claim 1, wherein members of said second set of lines extend along said second direction and are spaced from one another along said first predetermined direction with differing degrees of separation.

53. (new) A device according to claim 1, wherein at least one of the functional display regions is expanded.

54. (new) A method of generating a mesh, the method comprising:  
providing spaced, functional display regions;  
determining which regions overlap along a first predetermined direction;  
providing a plurality of overlap lines extending along said first predetermined direction;

selecting, for each functional display region, a one overlap along said first predetermined direction so as to provide a first set of selected overlaps;

determining midpoints of said overlap lines for each of said first set of selected overlaps so as to provide a first set of midpoints; and

providing a first set of lines extending in a second, transverse direction disposed along said first direction and passing through said first set of midpoints.

55. (new) A method according to claim 54, further comprising:  
determining which regions overlap along said second predetermined direction;  
providing a plurality of overlap lines extending along said second predetermined

direction;

selecting, for each functional display region, a one overlap along said second predetermined direction so as to provide a first set of selected overlaps;

determining midpoints of said overlap lines for each of said second set of selected overlaps so as to provide a second set of midpoints; and

providing a second set of lines extending in said first direction disposed along said second direction and passing through said at said second set of midpoints.

56. (new) A method according to claim 55, further comprising:

arranging nodes at intersections for said first and second sets of lines.

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